(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 22 July 2004 (22.07.2004)

PCT

(10) International Publication Number $WO\ 2004/060403\ A2$

(51) International Patent Classification⁷: A61P 25/00

A61K 47/48,

(21) International Application Number:

PCT/CA2004/000011

(22) International Filing Date: 5 January 2004 (05.01.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/437,986

6 January 2003 (06.01.2003) US

- (71) Applicant (for all designated States except US): TRANS-FERT PLUS [CA/CA]; 550 Sherbrooke West, Suite 100, H3A 1B9 Montréal, Québec (CA).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BÉLIVEAU, Richard [CA/CA]; 266 Wilson, H3E 1L8 Montréal, Québec, CA (CA). DEMEULE, Michel [CA/CA]; 3557 Archambault, J4M 2W8 Longueuil, Québec, CA (CA).
- (74) Agent: OGILVY RENAULT; Suite 1600, 1981 McGill College Avenue, H3A 2Y3 Montréal, Québec, CA (CA).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

A2

1

(54) Title: A METHOD FOR TRANSPORTING A COMPOUND ACROSS THE BLOOD-BRAIN BARRIER

(57) Abstract: The present invention relates to improvements in the field of drug delivery. More particularly, the invention relates to a non-invasive and flexible method and carrier for transporting a compound or drug across the blood-brain barrier of an individual. In particular the present invention relates to a carrier for transporting an agent attached thereto across a blood-brain barrier, wherein the carrier is able to cross the blood-brain barrier after attachment to the agent and thereby transport the agent across the blood-brain barrier. The present invention relates to improvements in the field of drug delivery. More particularly, the invention relates to a non-invasive and flexible method and carrier for transporting a compound or drug across the blood-brain barrier of an individual. In particular the present invention relates to a carrier for transporting an agent attached thereto across a blood-brain barrier, wherein the carrier is able to cross the blood-brain barrier after attachment to the agent and thereby transport the agent across the blood-brain barrier.